SUBMISSION AGREEMENT
BETWEEN
THE ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LABORATORY'S PHYSICAL OCEANOGRAPHY DIVISION
AND
THE NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION FOR THERMOSALINOGRAPH SEA SURFACE TEMPERATURE AND SALINITY DATA COLLECTED ABOARD VARIOUS VESSELS AND QUALITY CONTROLLED BY THE ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LABORATORY

2016-06-27

Introduction

This document represents the agreement that the Atlantic Oceanographic and Meteorological Laboratory's Physical Oceanography Division (NOAA/AOML/PHOD) (the "Provider") and the National Centers for Environmental Information (NCEI) (the "Archive") have reached for submitting the Provider's data, Thermosalinograph sea surface temperature and salinity data collected aboard various vessels and quality controlled by the Atlantic Oceanographic and Meteorological Laboratory, to the Archive for long-term preservation. It represents a joint effort between the Provider and the Archive to accurately document the agreement and the expectations between the two groups.

In order to ensure that the quality and integrity of the archived data is not compromised, the Provider and the Archive agree to maintain this agreement with accurate and up-to-date information through the life of the data submission.

Add comments as needed

Contacts

Persons included in all communications regarding the data submission.

Provider Contacts

Point of Contact, Principal Investigator	Technical Contact, Metadata Contact
Gustavo Goni	Francis Bringas
NOAA/AOML/PHOD	NOAA/AOML/PHOD
305-361-4339	305-361-4316
Gustavo.Goni@noaa.gov	Francis.Bringas@noaa.gov

Archive Contacts

Data Acquisition, Primary Point of Contact for Archive

Zhankun Wang

DOC/NOAA/NESDIS/NCEI > National Centers for Environmental Information, NESDIS, NOAA, U.S. Department of Commerce

301-713-4841

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Data Overview

The AOML TSG data being submitted to NOAA/NCEI contain information about temperature and salinity obtained with the use of thermosalinographs (TSG) installed in ships of the NOAA fleet and other cargo and cruise ships. The data is transmitted to AOML/NOAA in real-time and submitted to a quality control procedure developed at AOML. The data set submitted to NCEI for distribution constitute the complete data set received by AOML with the corresponding flags after the quality control. The time period covered by the Data set is from 20111007 to present. The geospatial coverage of the Data set is worldwide coverage. The measured variables or parameters include conductivity, sea surface salinity, sea surface water temperature (using internal sensor), water temperature (using external sensor, when available) and water temperature (using other auxiliary sensor, when available), latitude, longitude and time. The originator's data have different temporal resolutions from six second point values to 5 minute point values.

Applicable and Reference Documents

Documents applicable to or referenced from this agreement.

1. AOML_QC_RT_TSG_v5_(FB).doc is the current document that describes the data quality checks. More information can be obtained at www.aoml.noaa.gov/phod/tsg

Submission Scope

Active Submission Period

2016-07-01 - 2056-07-01

Data Types

Below is a summary of the data sizing and submission schedule by data type group. Enter information on at least one data type.

Data Type Name	Data Sizing	Submission Schedule
netCDF	Less than 10 GB	

Reviews and Testing

The archive should run the checksums submitted by the producer for each file received to ensure that the files were not corrupted during the transfer.

Providing System

Identification of the system providing the data to NCEI.

System Name: NOAA/AOML/PHOD
System Owner: Gustavo Goni
Physical Location: Miami, FL
Additional Information: TSG data

Transfer Interface

FTP
ftp://ftp.aoml.noaa.gov/phod/pub/bringas/TSG2NODC/

Submission File Inventory

Information on each submitted file type from the Provider. Information on multiple file types can be added below.

File Type Name: .nc.gz

File Name Pattern:

callsign_year_month_week.nc.gz

File Name Field Definitions:

callsign: the callsign of the ship collected the data

year: 4 digital year of the data collection

month: two digital month of the data collection (01-12)

week: week of the month of the data collection (01-04)

Example File Name:

ZCDJ6_2013_10_01.nc.gz

File Format: netCDF-4

File Compression: gzip

File Size Range: 4KB to 10MB

File Count (Rate): about 10000

Data Volume (Rate): about 10 GB

Submission Schedule: continous

Additional Information: Add comments as needed for this file type

Descriptive Information Attributes:

Attribute	Source	Use
callsign	file name	For search, results display, and/or cross-referencing
date/time	file name	For search, results display, and/or cross-referencing

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Submission Manifest

A submission manifest file with a 32-character MD5 checksum value is required for each submitted file in order to ensure the integrity of the submitted data.

File Content Specification:

A submission manifest file contains a comma delimited list of submitted file names and associated checksums for one or more submitted files.

File Transmission:

The data set is made available to the Archive through the ftp site ftp.aoml.noaa.gov/phod/pub/bringas/TSG2NODC. Files in the ftp site are update every time new data is received by the Producer, which typically occur in a daily basis

File Name Pattern:

md5sum_list.txt

File Name Definitions:

List md5 for each file associated with the file name. example

899191dafe1d45bdd10e443970fae47c 2EIF7_2012_05_03.nc.gz

Example File Name:

md5sum_list.txt

899191dafe1d45bdd10e443970fae47c 2EIF7_2012_05_03.nc.gz

Archive Ingest

Ingest processing steps at the Archive and communication with the Provider.

Receipt Verification:

The Archive will use the provided file name and 32-character MD5 checksum value to verify the integrity of a delivered file.

Error Reconciliation:

The Archive will report any problems or errors with file integrity, file name, checksum validation, or other errors that inhibit the data ingest and archive to the Provider. A new corresponding submission manifest will be required for files re-submitted by the Provider.

Receipt Confirmation:

The Archive will provide an inventory of the data ingested once it is completed or as requested by the Provider.

Quality Assurance:

No quality checks on the submitted data are planned. However, since the data might be used as part of the NCEI TSG database, The Archive will report any problems or errors with file quality if they are found.

Archive File Packaging:

Archive File Packaging will have the same file structure and the same file names as the submitted packaging.

Archive Storage

Archive attributes of each archived file type.

Archive File Type Name: netcdf

Archive File Attributes/IDs:

Attribute/ID Type	Value
Archive File ID	Attribute/ID value

Archive Updates

Data submissions intended to update an existing archive record require adequate notification and justification. Updates can supersede previous data submissions as a newer or improved version, however any previously submitted data will not be removed from the archive for the purpose maintaining version control and traceability in the archive.

Retention Schedule

The data will be retained in the Archive for long-term preservation in accordance with NOAA data management standards. Information on data usage and archive value may be used for making decisions on continuing the duration of the archive.

(Notional) Disposition: Unknown/TBD

Constraints

No constraints apply or will apply to the archived data.

User Community
Global Surface Water pCO2 Observing System. PI: Rik Wanninkhof (AOML)

User Documentation and Metadata
The Provider will supply information to the Archive for writing and maintaining standard archive metadata, which includes data discovery information, references and data archive access links for users. The following published documents and archived items will be referenced from the metadata and made available to users.

Representation Information Items
For data to be useful to users, present and future, its format specification and characteristics must be documented and preserved with the data. Representation Information provides users with syntax (structure) and/or semantics (meaning) to decode the encoded data.

None

Preservation Descriptive Information Items
Preservation Descriptive Information items contain context, provenance, and/or quality information for the data.

None

Access and Dissemination
The Archive will provide access services for the data and supporting information to the designated user community.

Additional Terms
None.